

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
6 February 2003 (06.02.2003)

PCT

(10) International Publication Number
WO 03/009740 A3

(51) International Patent Classification⁷: C12N 5/00, (51) International Patent Classification⁷: C12N 5/00, (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TI, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(21) International Application Number: PCT/US02/21631

(22) International Filing Date: 10 July 2002 (10.07.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/307,688 24 July 2001 (24.07.2001) US
60/382,459 22 May 2002 (22.05.2002) US

(71) Applicant (for all designated States except US): BIO-GEN, INC. [US/US]; 14 Cambridge Center, Cambridge, MA 02142 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): VAISHNAW, Akshay, K. [GB/US]; 25 Draper Avenue, Arlington, MA 02474 (US).

(74) Agent: MYERS, Louis; Fish & Richardson P.C., 225 Franklin Street, Boston, MA 02110 (US).

(81) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CR, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report: 11 December 2003

Published:
— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 03/009740 A3

(54) Title: METHODS FOR TREATING OR PREVENTING SCLEROTIC DISORDERS USING CD2-BINDING AGENTS

(57) Abstract: Methods and compositions for treating or preventing fibrotic disorders, e.g., sclerotic disorders, for example scleroderma, using CD2-binding agents, e.g., LFA-3/fgG fusion polypeptides or LFA-3-binding agents, are provided.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/21631

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12N 5/00, 02; A61K 39/395, 00; A61K 35/26, 28
 US CL : 435/41, 325, 375; 424/130.1, 143.1, 184.1, 577

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 435/41, 325, 375; 424/130.1, 143.1, 184.1, 577

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,547,853 A (WALLNER et al) 20 August 1996 (20.08.1996), see entire document, SEQ ID 12 in particular.	1-105
X	US 6,162,432 A (WALLNER et al) 19 December 2000 (19.12.2000), see entire document, SEQ ID NO:12 in particular.	1-105

Further documents are listed in the continuation of Box C. See patent family annex.

Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

Date of the actual completion of the international search

20 February 2003 (20.02.2003)

Date of mailing of the international search report

20 February 2003 (20.02.2003)

Name and mailing address of the ISA/US
 Commissioner of Patents and Trademarks
 Box PCT
 Washington, D.C. 20231
 Facsimile No. (703)305-3230

Authorized officer
Alicia O. Roberts for
 Michael A Belyavskyi

Telephone No. 703/308-0196

INTERNATIONAL SEARCH REPORT

PCT/US02/21631

Continuation of B. FIELDS SEARCHED Item 3:
BIOSIS, CAPLUS, SCISearch, Medline, Embase, WEST, uspatfull, PCTfull,
search terms: Vaishnav, A; CD2, LFA-3, binding agent, SEQ ID NO:2, T cell, fibrotic disorder.